

Sheet 1 of 16

FORM PTO 1449 (modified)

ATTY DOCKET NO.

SERIAL NO.  
08/925,676U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEAPPLICANT  
Edwin SOUTHERN#12  
B. Webb  
4/21/99LIST OF REFERENCES CITED BY APPLICANT(S)  
(Use several sheets if necessary)FILING DATE  
September 9, 1997GROUP  
1634 1655

Date Submitted to PTO: April 14, 1999

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AM	AA	4,563,419	1/1986	Ranki et al.	435	6	
AM	AB	4,704,353	11/1987	Humphries et al.	435	4	
AM	AC	4,728,502	3/1988	Hamill	422	116	
AM	AD	4,327,073	4/1982	Huang	424	1	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
AM	AE	2,156,074	10/1985	United Kingdom, Palva et al.				
AM	AF	0,237,362	9/1987	EP, Erlich et al.				
	AG							
AM	AH	WO93/22480	11/1993	PCT, Southern				
AM	AI	0235726A3	9/1987	Europe, Dattagupta et al.				
AM	AJ	WO85/01051	3/1985	PCT, Arnold				
AM	AK	0281927A2	9/1988	Europe, Dattagupta et al.				
AM	AL	0130739A2	1/1985	Europe, Urdea et al.				
AM	AM	0171150B1	2/1986	Europe, Herzberg et al.				
AM	AN	WO86/06487	11/1986	PCT, Geysen				

## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

AM	AO	G. Beltz et al., <u>Methods in Enzymology</u> , 100, 266-285 (1983).
AM	AP	E.M. Southern et al., <u>Genomics</u> , 13, 1008-1017 (1992).
AM	AQ	Y.P. Lysov et al., <u>Dokl. Akad.</u> , 303, 1508-1511 (1988) (with English translation).

EXAMINER

Andi Marshall

DATE CONSIDERED

7-6-99

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FORM PTO 1449 (modified)

ATTY DOCKET NO.

SERIAL NO.  
08/923,876U.S. DEPARTMENT OF COMMERCE  
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Edwin SOUTHERNLIST OF REFERENCES CITED BY APPLICANT(S)  
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September 9, 1997GROUP  
1655

Date Submitted to PTO: April 14, 1999

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AM	BA	4,216,245	8/1980	Johnson	427	2	
AM	BB	4,395,486	7/1983	Wilson et al.	435	6	
AM	BC	4,656,127	4/87	Mundy	435	6	
AM	BD	5,164,319	11/92	Hafeman et al.	435	291	
AM	BE	5,002,867	3/91	Macevicz	435	6	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
AM	BF	WO84/03584	9/1984	PCT, Geysen			
AM	BG	WO86/00991	2/1986	PCT, Geysen			
	BH						
AM	BI	0228075A2	7/1987	Europe, Dattagupta et al.			

## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

AM	BJ	F. Kafatos et al., <u>Nucleic Acids Research</u> , <u>7</u> (6), 1541-1552 (1979).
AM	BK	H.M. Geysen et al., <u>J. Immun. Meth.</u> , <u>102</u> , 259-274 (1987).
AM	BL	V.J. Kidd et al., <u>Nature</u> , <u>304</u> , 230-234 (1983).
AM	BM	P. Masinkowski et al., <u>Nucleic Acids Research</u> , <u>10</u> (24), 7895-7903 (1982).
AM	BN	G.K. Sim et al., <u>Cell</u> , <u>18</u> , 1303-1316 (1979).
AM	BO	W. Bains et al., <u>J. Theor. Biol.</u> , <u>135</u> , 303-307 (1988).

EXAMINER

Andi Masinkowski

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FORM PTO 1449 (modified)

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AM	CA	5,202,231	4/93	Drmanac et al.	435	6	
	CB						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
AM	CC	WO84/03151	8/1984	PCT, Chang			
AM	CD	0194132A2	9/1986	Europe, Leaback			
AM	CE	0063810A1	11/1982	Europe, Gordon et al.			
AM	CF	0130523A3	1/1985	Europe, Dattagupta et al.			
AM	CG	0142299A2	5/1985	Europe, Ashihara et al.			
AM	CH	0268237A2	5/1988	Europe, Hayes et al.			
AM	CI	WO88/01302	2/1988	PCT, Gingeras et al.			

## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

AM	CJ	Gingeras et al., Nucleic Acids Research, Vol. 15, No. 13, pp. 5373-5390 (1987).
AM	CK	U.B. Voss et al., Biochemical Society Transactions, 624th Meeting, Dublin, 216-217 (1987).
AM	CL	R.K. Saiki et al., Nature, 324, 163-166 (1986).
AM	CM	Wood et al., Proc. Natl. Acad. Sci. (USA), Vol. 82, pp. 1585-1588, 1985.
AM	CN	L.J. Arnold et al., Federation Proceedings, 43(7), Abstract No. 3669 (1984).
AM	CO	T. Maniatis et al., Molecular Cloning, A Laboratory Manual, Cold Spring Harbor Laboratory, p. 282 (1982).

EXAMINER

A. J. Mascher

DATE CONSIDERED

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FORM PTO 1449 (modified)

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## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
AM	DC	WO88/03782	7/1986	PCT, Malcolm et al.			
AM	DD	0238332A2	9/1987	Europe, Goodson et al.			

## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

AM	DE	C.R. Cantor et al., <u>Genomics</u> , 13 1378-1383 (1992).					
AM	DF	G.M. Church et al., <u>Proc. Natl. Acad. Sci. USA</u> , 81 1991-1995 (1984).					
AM	DG	R. Frank, <u>Methods in Enzymology</u> , 154, 221-251 (1987).					
AM	DH	R. Frank, <u>Nucleic Acids Research</u> , 11(13), 4365-4377 (1983).					
AM	DI	A.R. Brautigam et al., <u>J. Clin. Microbiol.</u> , 12(2), 226-234 (1980).					
AM	DJ	A. Rosenthal et al., <u>Nucleic Acids Research</u> , 13(4), 1173-1184 (1985).					
AM	DK	B. Lewin, <u>Genes</u> , 3rd Ed., John Wiley & Sons, pp. 360-362 (1983).					
AM	DL	M. Anderson et al., <u>Nucleic Acid Hybridisation. A Practical Approach</u> , B.D Hames et al., eds., IRL Press, pp. 73-111 (1985).					
AM	DM	M.S. Urdea et al., <u>Gene</u> , 61, 253-264 (1987).					

EXAMINER

Edwin Manaslos

DATE CONSIDERED

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FORM PTO 1449 (modified)

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## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

AM	EF	C.G. Miyada et al., <u>Methods in Enzymology</u> , <u>154</u> , 94-107 (1987).
AM	EG	E. Calva et al., <u>J. Biol. Chem.</u> , <u>255</u> (22), 11011-11016 (1980).
AM	EH	A.R. Dunn et al., <u>Cell</u> , <u>12</u> , 23-36 (1977).
AM	EI	G. Wengler et al., <u>Virology</u> , <u>78</u> , 124-134 (1977).
AM	EJ	J.M. Coffin et al., <u>Cell</u> , <u>13</u> 761-773 (1978).
AM	EK	A. Palva et al., <u>DNA</u> , <u>7</u> (2), 135-142 (1988).
AM	EL	R. Drmanac et al., "Sequencing of Megabase Plus DNA by Hybridization: Theory of the Method", University of Belgrade (former Yugoslavia) (1988).
	EM	

EXAMINER

Andi Manoles

DATE CONSIDERED

7-6-99

Sheet 7 of 16FORM PTO-1449  
(REV. 7-93)U.S. DEPARTMENT OF COMMERCE  
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## OTHER ART

(Including Author, Title, Date, Pertinent Pages, Etc.)

AM	AR	Frankel et al., <u>The Journal of Infectious Diseases</u> , 161 1252-1256 (1990)
AM	AS	Ezaki, <u>Asian Med. J.</u> , 34(8), 454-459 (1991)
AM	AT	Ezaki et al., <u>Cancer</u> , 61, 106-109 (1988)

EXAMINER

Aida Mairal

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7-6-99

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609, Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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FORM PTO-1449 (REV. 7-90)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO.	SERIAL NO.
		08/925.676	
		APPLICANT Edwin SOUTHERN	
LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)		FILING DATE September 9, 1997	GROUP 1624 1655

## U.S. PATENT DOCUMENTS

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## OTHER ART

(Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	<del>Horn et al., Concise Communications, 1250-1252 (date unknown)</del>
AM	AS	Robins-Browne et al., <u>Journal of Clinical Microbiology</u> , 27(4), 644-650 (April 1989)
AM	AT	Ezaki et al., <u>International Journal of Systematic Bacteriology</u> , 36(2), 345-347 (1986)

EXAMINER

Bridget Marshall

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7-6-99

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Sheet 9 of 16FORM PTO-1449  
REV. 7-191U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

SERIAL NO.

08/925,676

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September 9, 1997

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## U.S. PATENT DOCUMENTS

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## OTHER ART

(Including Author, Title, Date, Pertinent Pages, Etc.)

AM	AR	McDonough et al., <u>Journal of Clinical Microbiology</u> , 26(12), 2515-2519 (1988)
AM	AS	Burgmann et al. <u>Nucleic Acids Research</u> , 10(22), 7163-7180 (1982)
AM	AT	Forster et al. <u>Nucleic Acids Research</u> , 13(3), 745-761 (1985)

EXAMINER

Adin Manohar

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7-6-99

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Sheet 10 of 16

FORM PTO-1449 (REV. 7-23)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO.	SERIAL NO. 08/925,676
LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)		APPLICANT Edwin SOUTHERN	
		FILING DATE September 9, 1997	GROUP 1634 1655

## U.S. PATENT DOCUMENTS

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## OTHER ART

(Including Author, Title, Date, Pertinent Pages, Etc.)

AM	AR	Koomey et al., <u>Infection and Immunity</u> , 43(1), 101-107 (January 1984)
AM	AS	Syvanen, <u>Medical Biology</u> , 64, 313-324 (1986) (Review Article)
AM	AT	Nagata et al., <u>FEBS Letters</u> , 183(2), 379-382 (April 1985)

EXAMINER <i>Andr. Marshall</i>	DATE CONSIDERED 7-6-99
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Form PTO-1449 (REV. 7-91)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO.	SERIAL NO. 08/925,676
LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)		APPLICANT Edwin SOUTHERN	
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## OTHER ART

(Including Author, Title, Date, Pertinent Pages, Etc.)

AM	AR	Ezaki et al., <u>FEMS Microbiology Letters</u> , <u>67</u> , 127-130 (1990)
AM	AS	Kilpper-Balz et al., <u>System. Appl. Microbiol.</u> , <u>5</u> , 494-500 (1984)
AM	AT	Habermehl, Ed., <u>Rapid Methods and Automation in Microbiology and Immunology</u> , 30-33 (1985)

EXAMINER <i>Indi Mascher</i>	DATE CONSIDERED 7-6-99
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FORM PTO-1449  
(REV. 7-201)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

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08/925,676

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Edwin SOUTHERN

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## OTHER ART

(Including Author, Title, Date, Pertinent Pages, Etc.)

AM	AR	Schachter, <u>Diagn. Microbiol. Infect. Dis.</u> , 4, 185-189 (1986)
AM	AS	Starnbach, <u>Journal of Clinical Microbiology</u> , 27(6), 1257-1261 (June 1989)
AM	AT	Ezaki et al., <u>Microbiol. Immunol.</u> , 32(2), 141-150 (1988)

EXAMINER

Andin Maschot

DATE CONSIDERED

7-6-99

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Sheet 13 of 16FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
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## OTHER ART

(Including Author, Title, Date, Pertinent Pages, Etc.)

AM	AR	Ghosh et al. Farrow et al., <u>System. Appl. Microbiol.</u> , <u>5</u> , 483-493 (1984)
AM	AS	Dean et al., <u>Journal of Clinical Microbiology</u> , <u>27(5)</u> , 1062-1067 (May 1989)
AM	AT	<u>Nucleic Acids Research</u> , <u>15(13)</u> , 5353-5372 (1987)

EXAMINER

Arden Marshall

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FORM PTO-1449  
(REV. 7-90)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

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AM	AR	Gingeras et al. Nucleic Acids Research, 15(13), 5373-5390 (1987)
AM	AS	Church et al., Science, 240, 185-188 (April 8, 1988)
AM	AT	Bunemann Nucleic Acids Research, 10(22), 7181-7196 (1982)

EXAMINER *Ali Masdar*

DATE CONSIDERED  
7-6-99

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AM	AL 1284931	6-13-91	Canada, Erlich et al.				
AM	AM 89/11548	11-30-89	WO, Saiki et al.				
AM	AN 237362	9-16-87	EP-A, Erlich et al.				
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## OTHER ART

(Including Author, Title, Date, Pertinent Pages, Etc.)

AM	AQ	Gingeras, T.R., et al., "Nucleic Acid Research", 15(13) 5373-5390 (1987)
AM	AR	Wood et al., Proc. Natl. Acad. Sci. (USA), Vol. 82, pp. 1585-1588, 1985.
AM	AS	Brigati et al., Virology, Vol. 126, pp. 32-50, 1983.
AM	AT	Fodor et al., Science, Vol. 251, pp. 767-773, 1991.
AM	AU	Saiki et al., Nature, Vol. 324, pp. 163-166, 1986.

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Am	AR	Ezaki et al., J. Gen. Appl. Microbiol., 34, 191-199 (1988)
Am	AS	Ezaki et al., Journal of Clinical Microbiology, 26(9), 1708-1713 (September 1988)
Am	AT	Farrow et al., System. Appl. Microbiol., 5, 467-482 (1984)

EXAMINER <i>Andi M. Mader</i>	DATE CONSIDERED 7-6-99
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.